

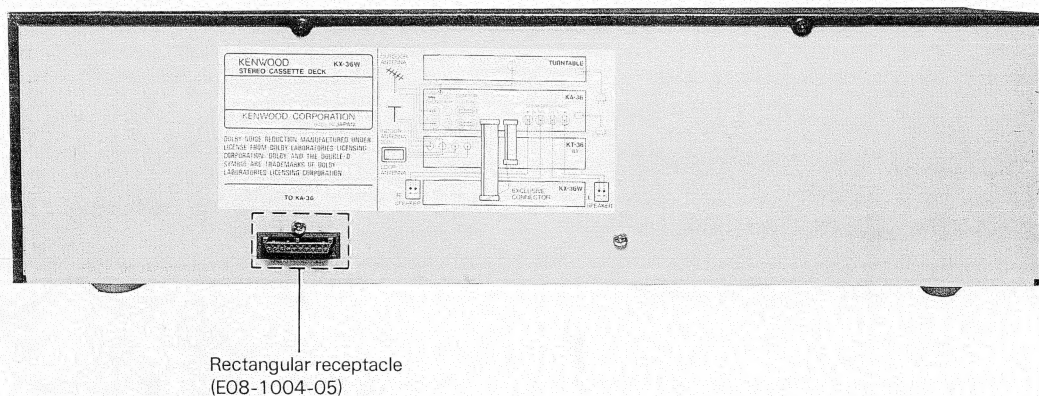
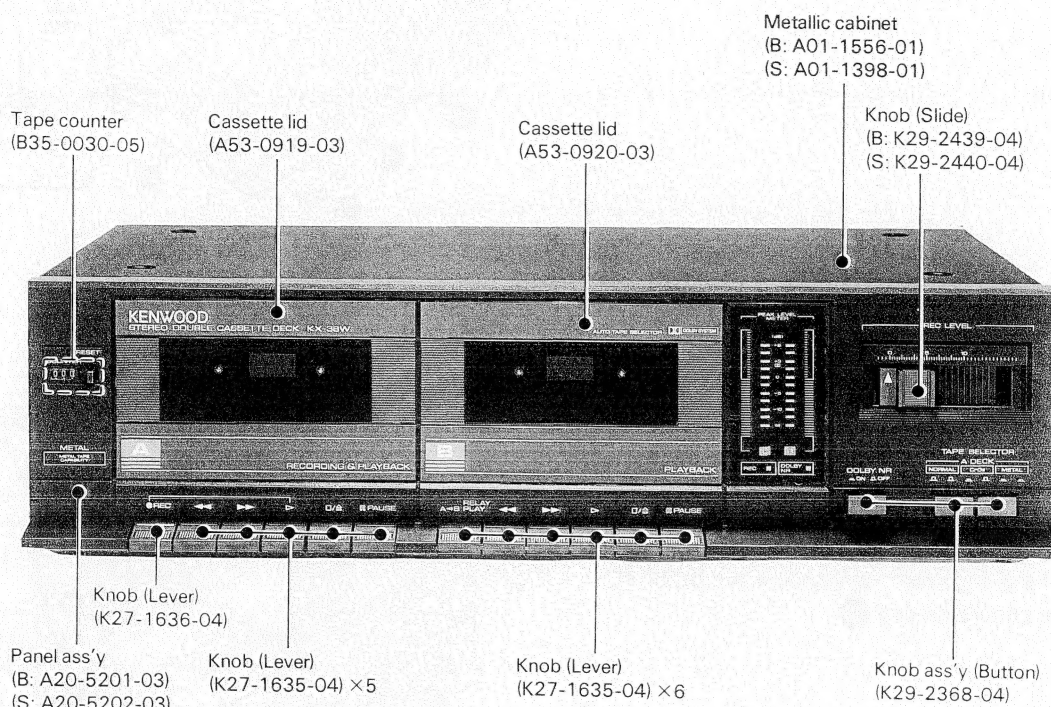
STEREO DOUBLE CASSETTE DECK

# KX-36W

## SERVICE MANUAL

# KENWOOD

©1987-3 PRINTED IN JAPAN  
B51-3155-00(B)1522

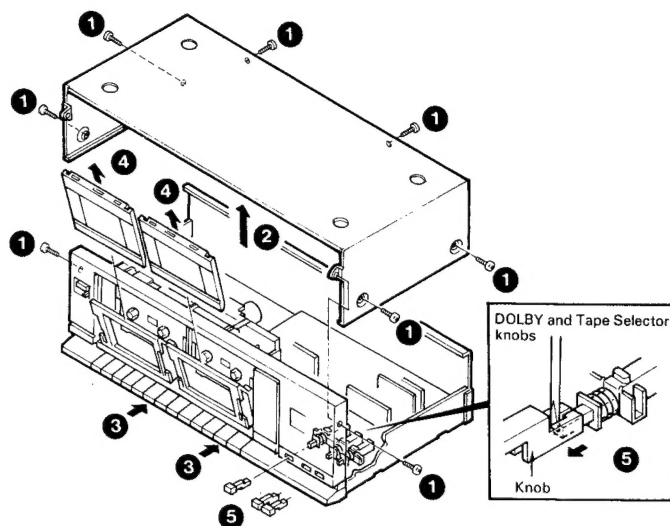


**Note:** When servicing of KT-36, KT-36L, or KX-36W, be sure to have the customer bring the KA-36 or use the DC power supply.

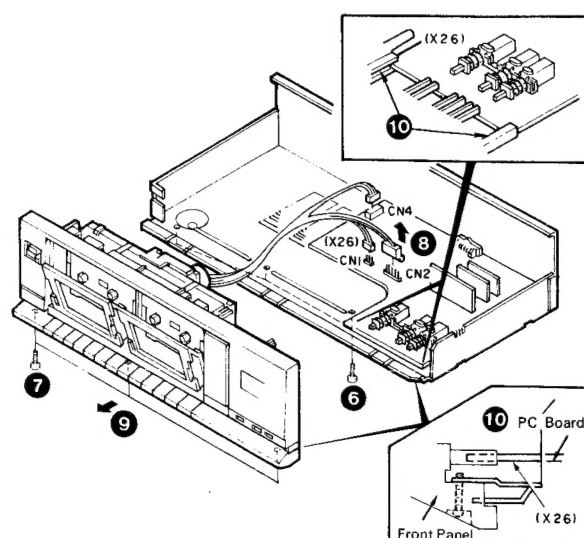
\* Refer to parts list on page 16.  
Photo is black version.  
(B: Black version.)  
(S: Silver version.)

## DISASSEMBLY FOR REPAIR

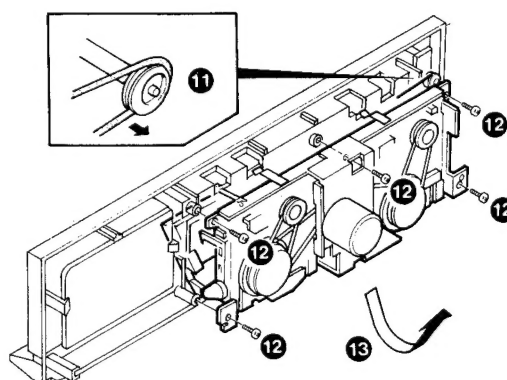
1. Remove the eight screws **1** from the metal case.
2. Lift the metal case in the direction of the arrow **2**.
3. Press the EJECT buttons to open cassette lids **3**.
4. Detach the cassette lids in direction **4**.
5. Using a  $\ominus$  screwdriver, remove the Dolby and Tape Selector knobs in direction **5**.



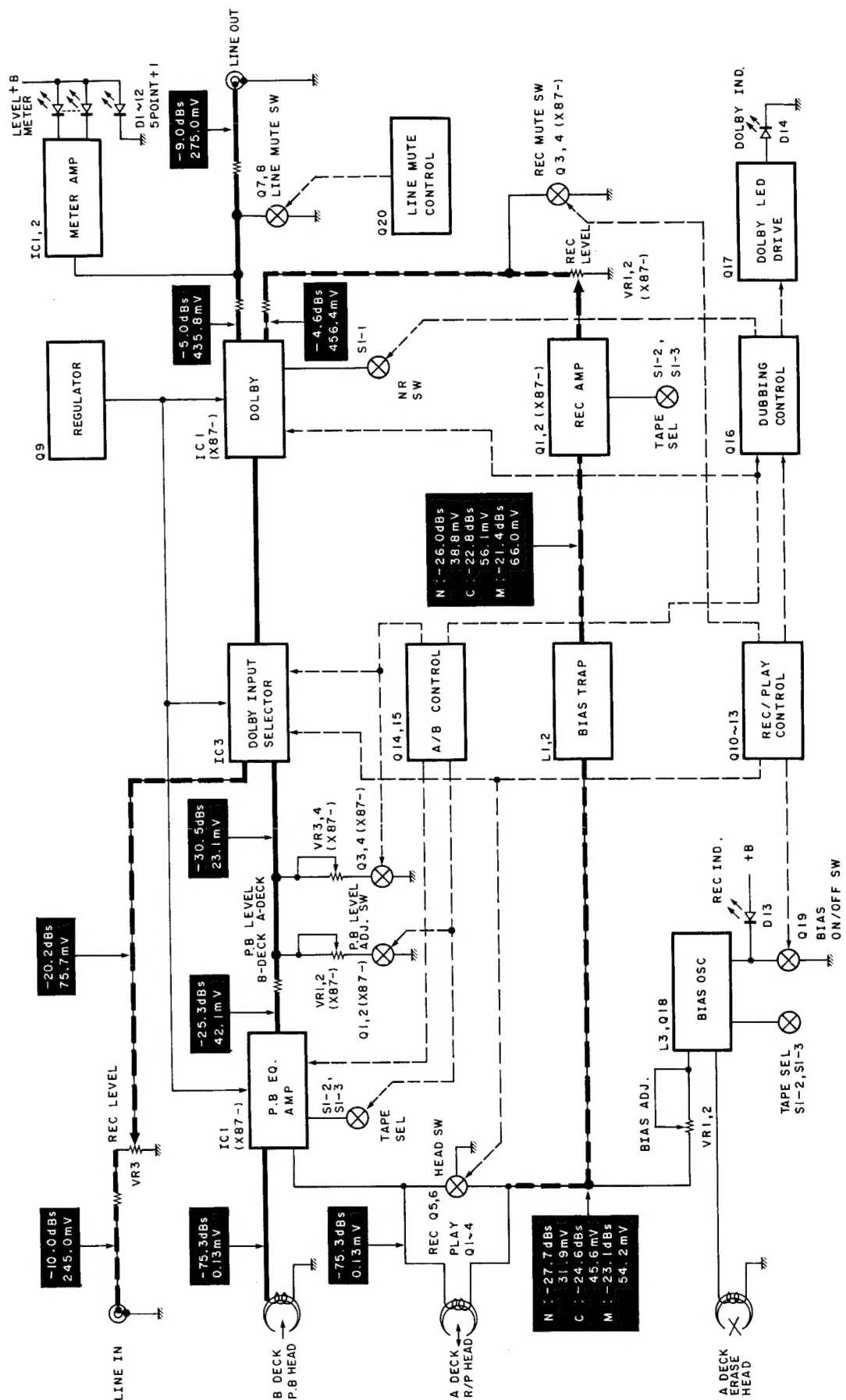
6. Remove the three screws **6** attached to the mechanism from the bottom panel.
7. Remove the three screws **7** attached to the front panel.
8. Disconnect the connectors CN1, CN2, and CN4 **8**.
9. Detach the front panel in the direction of the arrow **9**.
10. When attaching the front panel, slide the (X26) PC board into the panel's groove **10**.



11. Remove the belt attached to the mechanism and the counter **11**.
12. Remove the five screws **12** attached to the mechanism.
13. Remove the mechanism in the direction of the arrow **13**.



## BLOCK LEVEL DIAGRAM



## CIRCUIT DESCRIPTION

### RECORDING AMPLIFIER UNIT (X87-1040-00)

Component	Application/Function	Operation/Conditions/Interchangeability
Q1, 2	REC amplifier	
Q3, 4	REC MUTE switch	Controlled by REC SW in mechanism. During REC and REC PAUSE modes, shorted to GND by REC SW in mechanism, becomes "L", turning Q3 and Q4 OFF. In other modes, as REC SW in mechanism is OPEN, becomes "H", turning them ON.

### DOLBY NR UNIT (X87-1070-00)

Component	Application/Function	Operation/Conditions/Interchangeability
IC1	DOLBY amplifier	DOLBY B type

### PLAYBACK AMPLIFIER UNIT (X87-1100-00)

Component	Application/Function	Operation/Conditions/Interchangeability
IC1	Playback equalizer amplifier	
Q1, 2	B deck PB LEVEL adjustment switch	Operates according to A/B selection control (X26-1152-70 Q15). ON in B deck PLAY mode, OFF in other modes. (Refer to X26-1152-70, Q14, 15)
Q3, 4	A deck PB LEVEL adjustment switch	Operates according to A/B selection control (X26-1152-70 Q14). OFF in B deck PLAY mode, ON in other modes. (Refer to X26-1152-70, Q14, 15)



# CIRCUIT DESCRIPTION

## Function of components

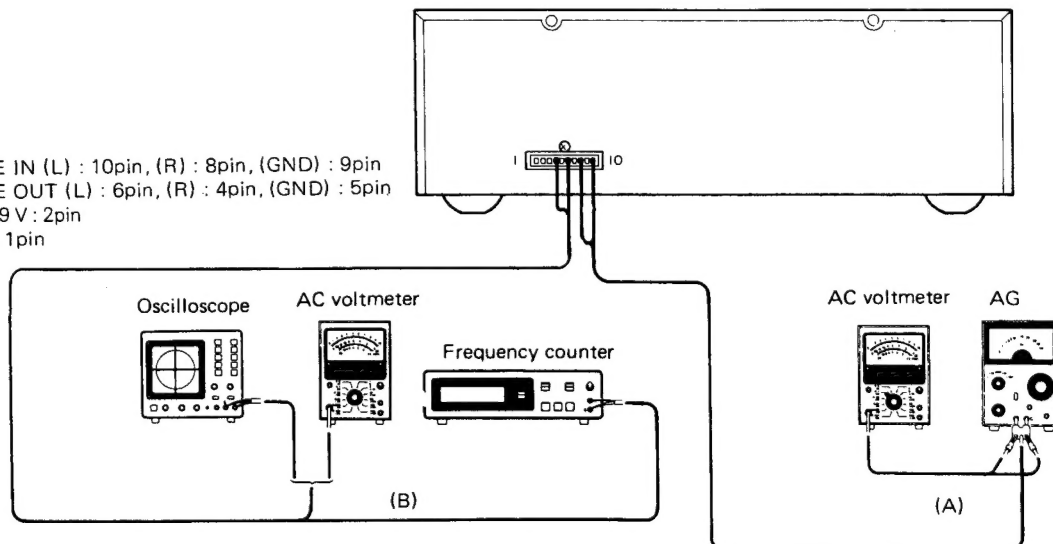
### CASSETTE UNIT (X26-1152-70)

Component	Application/Function	Operation/Conditions/Interchangeability												
IC1, 2	Level meter driving	5 segments $\times 2$ , displays for $-10$ , $-5$ , $0$ , $+3$ , $+6$ .												
IC3	DOLBY input selection	Input the signals from LINE IN (REC mode) or the playback signals (other modes, including dubbing to DOLBY amplifier).												
Q1 ~4	Head selection switch	OFF in REC and REC PAUSE modes, ON in other modes. Requires a high dielectric strength, an appropriately low saturation voltage, and a small ON resistance. Controlled by Q12. (Refer to Q10~12)												
Q5, 6	Head selection switch	ON in REC and REC PAUSE modes, OFF in other modes. Controlled by Q10. (Refer to Q10~12)												
Q7, 8	LINE MUTE switch	In PLAY and REC modes (including REC PAUSE), when PB SW in mechanism is shorted, "H" is output, turning Q20 OFF. "L" is applied to the base of Q7 and Q8, turning them OFF. ON in other modes. (Refer to Q20)												
Q9	+12.6 V power supply	Regulated power supply for playback amplifier, DOLBY input selection IC, and DOLBY amplifier.												
Q10~12	REC/PLAY selection control	Controlled by REC SW in mechanism. In REC and REC PAUSE modes, shorted to GND by REC SW in mechanism and becomes "L". In other modes, "H". <table><tr><td></td><td>REC/REC PAUSE</td><td>Other Modes</td></tr><tr><td>Q10</td><td>OFF</td><td>ON</td></tr><tr><td>Q11</td><td>ON</td><td>OFF</td></tr><tr><td>Q12</td><td>OFF</td><td>ON</td></tr></table>		REC/REC PAUSE	Other Modes	Q10	OFF	ON	Q11	ON	OFF	Q12	OFF	ON
	REC/REC PAUSE	Other Modes												
Q10	OFF	ON												
Q11	ON	OFF												
Q12	OFF	ON												
Q13	+12.8 V power supply	Regulated power supply for REC/PLAY selection control.												
Q14, 15	A/B selection control	Controlled by B deck PB SW in mechanism. During B deck PLAY mode, when B deck PB SW in shorted, A/B selection control becomes "H". In other modes, "L". <table><tr><td></td><td>B Deck PLAY</td><td>Other Modes</td></tr><tr><td>Q14</td><td>ON</td><td>OFF</td></tr><tr><td>Q15</td><td>OFF</td><td>ON</td></tr></table>		B Deck PLAY	Other Modes	Q14	ON	OFF	Q15	OFF	ON			
	B Deck PLAY	Other Modes												
Q14	ON	OFF												
Q15	OFF	ON												
Q16	Dubbing control	Controlled by REC SW in mechanism. During REC and REC PAUSE modes, shorted to GND by REC SW in mechanism, becomes "L", and Q16 is turned OFF. ON in other modes. As the Q16 and Q15 collectors are connected and used as output, according to the table below, the output is "H" in dubbing mode (A deck REC + B deck PLAY), "L" in other modes. <table><tr><td></td><td>REC/REC PAUSE</td><td>B Deck PLAY</td><td>Other Modes</td></tr><tr><td>Q16 Collector</td><td>"H"</td><td>"L"</td><td>"L"</td></tr><tr><td>Q15 Collector</td><td>"L"</td><td>"H"</td><td>"L"</td></tr></table>		REC/REC PAUSE	B Deck PLAY	Other Modes	Q16 Collector	"H"	"L"	"L"	Q15 Collector	"L"	"H"	"L"
	REC/REC PAUSE	B Deck PLAY	Other Modes											
Q16 Collector	"H"	"L"	"L"											
Q15 Collector	"L"	"H"	"L"											
Q17	DOLBY LED driving	Controlled by Q15 and Q16. ON in dubbing mode. OFF in other modes. (Refer to Q16)												
Q18	BIAS oscillation	Drives primary side of bias oscillation transformer.												
Q19	BIAS oscillator switch	Controlled by Q10. ON in REC and REC PAUSE modes. OFF in other modes. (Refer to Q10~12)												
Q20	LINE MUTE control	Controlled by PB SW in mechanism. During PLAY and REC (including REC PAUSE) modes, PB SW in mechanism is shorted, "H" is output, and Q20 is turned OFF. ON in other modes.												

## ADJUSTMENT

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	CASSETTE TAPE DECK SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
CASSETTE DECK SECTION		TAPE: NORMAL, DOLBY: OFF, INPUT: LINE					0dBs = 0.775V
I REC/PLAY HEAD							
[1]	DEMAGNETIZATION	--	--	POWER: OFF Remove the cassette door.	REC/PLAY head	Demagnetize the REC/PLAY head with a head demagnetizer.	
[2]	CLEANING	--	--	PLAY	REC/PLAY head erase head, capstan, pinch roller.	Clean the REC/PLAY head erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol.	
[3]	AZIMUTH	MTT-114 10kHz, -10dB	(B)	PLAY	Azimuth adjust- ment screw	Minimum output	
DC MOTOR							
(i)	TAPE SPEED	MTT-111 3kHz	(B)	PLAY	Trimming poten- tiometer in the DC motor	Adjust the tape speed so that a 3kHz signal is produced at the center of the tape.	
II PC BOARD (X26-1152-70,X87-1040-00,X87-1100-00)							
<1>	PLAYBACK LEVEL (X87-1100-00)	(a) MTT-111 400Hz	(B)	PLAY	DECK A: VR4(L) V3R(R)	Output level: -7.0dBs	(a)
		DECK B: VR2(L) VR1(R)			Output level: -9.5dBs		
					Output level: -5.5dBs		
<2>	BIAS CURRENT (X26-1152-70)	(A) 1kHz, -30dBs 10kHz, -30dBs	(B)	Adjust VR5 so that the REC monitor output becomes -29dBs at 1kHz, then record and reproduce signal of 1kHz and 10kHz in alternation.	VR1(L) VR2(R)	Record 1kHz and 10kHz in alternation and adjust the variable resistors which control the bias current so that the same playback level is obtained.	(b)
<3>	RECORD LEVEL (X87-1040-00)	(A) 1kHz, -30dBs	(B)	Record and reproduce a 1kHz signal under the conditions set in <2>.	VR2(L) VR1(R)	Adjust the variable resistors so that a playback level of -9dBs is obtained.	(c)

LINE IN (L) : 10pin, (R) : 8pin, (GND) : 9pin  
 LINE OUT (L) : 6pin, (R) : 4pin, (GND) : 5pin  
 +15.9V : 2pin  
 0V : 1pin



REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGLAGE DU MAGNETO -PHONE A CASSETTE	POINTS DE L'ALIGNEMENT	ALIGNER POUR	FIG.
SECTION DU MAGNETOPHONE TAPE: NORMAL, DOLBY: OFF, ENTREE: LINE							0dBs = 0,775V
I TETE D'ENREGISTREMENT/LECTURE							
[ 1 ]	DEMAGNETISATION	—	—	POWER: OFF Eloigner la porte.	Tete D'ENREGISTREMENT/ LECTURE	Demagnetiser la tete D'ENREGISTREMENT/LECTURE avec un demagnetiseur de tete.	
[ 2 ]	NETTOYAGE	—	—	PLAY	Tete D'ENREGISTREMENT/ LECTURE tete d'effacement, cabestan, galetpresseur.	Nettoyer la tete D'ENREGISTREMENT/LECTURE la tete d'effacement, le cabestan et le galetpresseur avec un coton-tige legerement imbibé d'alcool.	
[ 3 ]	AZIMUT	MTT-114 10kHz, -10dB	(B)	PLAY	Vis d'azimut	Sortie minimale	
MOTEUR CC							
( i )	VITESSE DE DEFILEMENT	MTT-111 3kHz	(B)	PLAY	Resistance ajustable du moteur CC	Regler la vitesse de bande de façon qu'un signal de 3kHz soit produit au centre de la bande.	
II PLAQUE IMPRIMEE (X26-1152-70,X87-1040-00,X87-1100-00)							
< 1 >	NIVEAU DE LECTURE (X87-1100-00)	(a) MTT-111 400Hz	(B)	PLAY	DECK A: VR4(G) VR3(D)	Niveau de sortie: -7,0dBs	(a)
		(b) MTT-256 315Hz			DECK B: VR2(G) VR1(D)	Niveau de sortie: -9,5dBs	
		(c) MTT-256U 315Hz				Niveau de sortie: -5,5dBs	
< 2 >	COURANT DE POLARISATION (X26-1152-70)	(A) 1kHz. -30dBs 10kHz. -30dBs	(B)	Régler VR5 de façon que la sortie de moniteur REC soit de -29dBs a 1kHz, puis en registrer et signaux de 1kHz et 10kHz en alternance.	VR1(G) VR2(D)	Enregistrer un signal de 1kHz et 10kHz en alternance et ajuster les resistances variables qui commandent le courant de polarite de façon a obtenir le meme niveau de lecture.	(b)
< 3 >	NIVEAU D'ENREGISTREMENT (X87-1040-00)	(A) 1kHz. -30dBs	(B)	Enregistrer et reproduire un signal de 1kHz dans les conditions precisees en <2>.	VR2(G) VR1(D)	Ajuster les resistances variables de façon a obtenir un niveau de lecture de -9dBs.	(c)

ABGLEICH

NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	KASSETTENGERT-EINSTELLUNG	ABGLEICH PUNKTE	ABGLEICHEN FÜR	ABB.
CASSETTEN-DECK-ABTEILUNG		TAPE: NORMAL, DOLBY: OFF, EINGANG: LINE					0dBs = 0,775V
I AUFNAHME/WIEDERGABE-KOPF							
[1]	ENTMAGNETISIERUNG	-	-	POWER: OFF Den Kassettenfach deckel oben herausziehen.	AUFNAHME/WIEDERGABE-Kopf	Entmagnetisierung von dem AUFNAHME/WIEDERGABE-Kopf mit einem Tonkopf Entmagnetisierungs-drossel.	
[2]	REINIGUNG	-	-	PLAY	AUFNAHME/WIEDERGABE-Kopf Löschkopf, Tonwelle, Andruckrolle.	AUFNAHME/WIEDERGABE-Kopf, Löschkopf, Tonwelle und Andruckrolle mit einem leicht mit Alkohol befeuchteten Wattebausch reinigen.	
[3]	AZIMUT-EINSTELLUNG	MTT-256 10kHz, -10dB	(B)	PLAY	Azimut-Einstellschraube	Minimal Ausgang	
GLEICHSTROMMOTOR							
(i)	BANDGESCHWINDIGKEIT	MTT-111 3kHz	(B)	PLAY	Trimmer potentiometer am Gleichstrommotor	Die Bandgeschwindigkeit so justieren, das ein 3kHz Signal auf der Mitte des Bands erzeugt wird.	
II GEDRUCKTE SCHALTPLATTE (X26-1152-70,X87-1040-00,X87-1100-00)							
<1>	WIEDERGABE-PEGEL (X87-1100-00)	(a) MTT-150 400Hz	(B)	PLAY	DECK A: VR4(L) VR3(R)	Ausgangspegel: -7,0dBs	(a)
		(b) MTT-256 315Hz			DECK B: VR2(L) VR1(R)	Ausgangspegel: -9,5dBs	
		(c) MTT-256U 315Hz				Ausgangspegel: -5,5dBs	
<2>	LEERLAUFSTROM (X26-1152-70)	(C) 1kHz, -30dBs 10kHz, -30dBs	(B)	VR5 so justieren, das der REC Monitorausgang -29dBs bei 1kHz wird, und danach abwechselnd Signale von 1kHz und 10kHz aufnehmen und wiedergeben.	VR1(L) VR2(R)	Signale von 1kHz und 10kHz abwechselnd aufnehmen und die Regelwiderstände, die den Vormagnetisierungsstrom regeln, so justieren, das der gleiche Wiedergabepegel erzielt wird.	(b)
<3>	UFNAHMEPEGEL (X87-1040-00)	(C) 1kHz, -30dBs	(B)	Ein 1kHz Signal unter den in Punkt <2> beschriebenen Bedingungen aufnehmen und reproduzieren.	VR2(L) VR1(R)	Die Regelwiderstände so justieren, das ein wiedergabepegel von -9dBs erzielt wird.	(c)



PC BOARD (Component Side View)

X26-1152-70		IC 2	
1	4 OFF 14.4V	1	4 OFF 14.4V
2	0V	5	0V
3	OFF 14.4V	6	OFF 14.4V
4	0V	7	0V
5	0V	8	0V
6	0V	9	15.9V

IC 3	
1	6.3V
2	10
3	0V
4	0V
5	12.6V
6	12
7	6.3V
8	6.3V

Q9		Q10	
E	12.6V	E	0V
B	13.2V	B	—
C	15.9V	C	REC 9.5V
			OTHERS 0V

Q11		Q12	
E	0V	E	REC 0V
B	—	B	OTHERS 6.3V
C	REC 0V	C	—
			OTHERS 6.1V

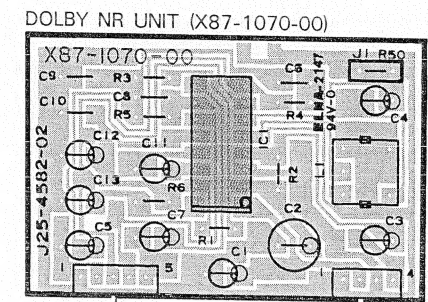
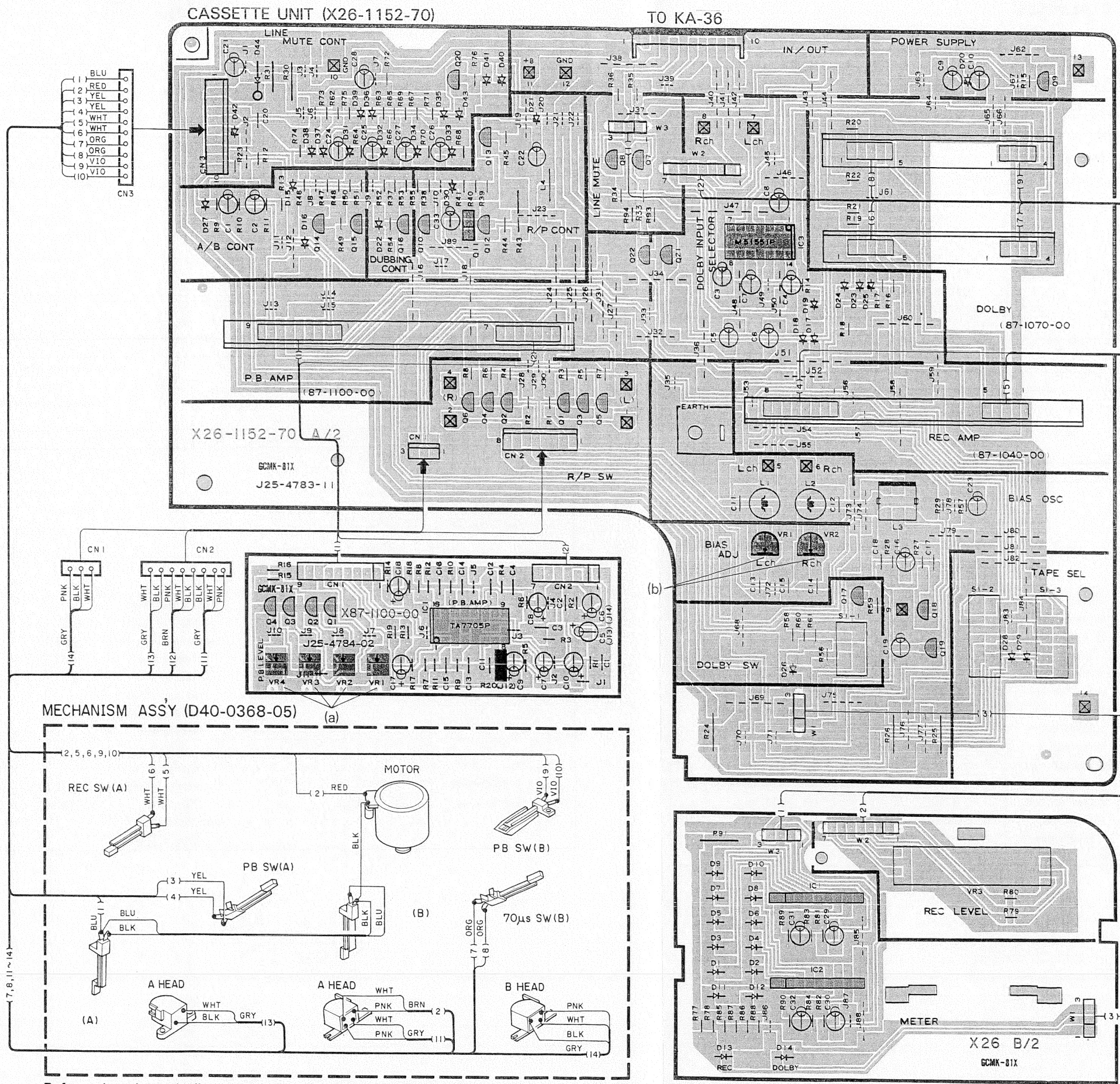
Q13		Q14	
E	12.8V	E	0V
B	13.5V	B	—
C	15.9V	C	PLAY 0V
			OTHERS 13.1V

Q15		Q16	
E	0V	E	0V
B	—	B	—
C	PLAY 14.1V	C	DUBBING 13.2V
			OTHERS 0V

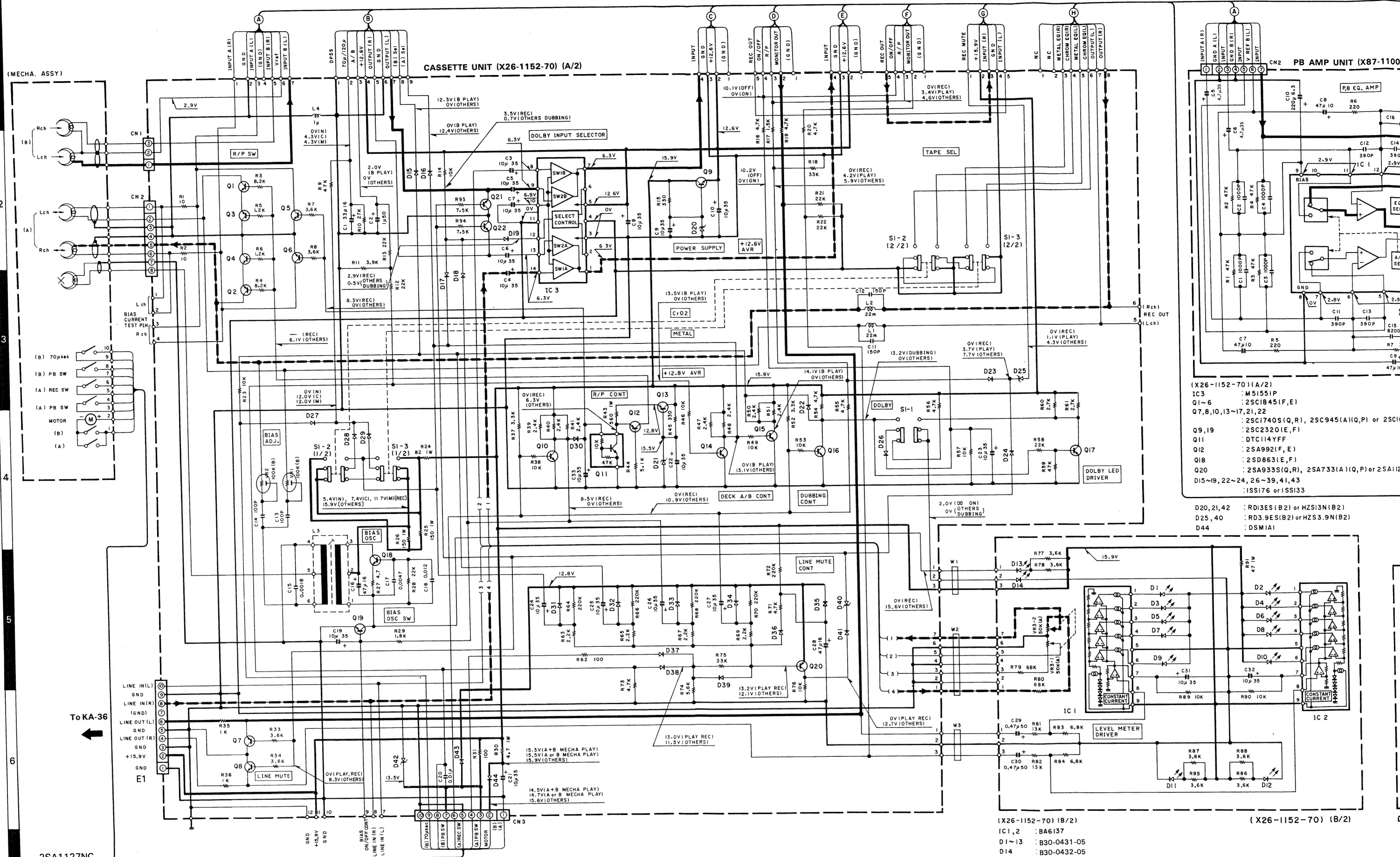
Q20	
E	12.8V
B	PLAY REC 13.2V
C	OTHERS 12.1V
	PLAY REC 0V
	OTHERS 12.7V

X87-1070-00		IC 1	
1	14.3V	9	7.0V
2	7.0V	10	7.0V
3	0V	11	13.5V
4	5.7V	12	0V
5	5.7V	13	7.0V
6	7.0V	14	7.0V
7	3.0V	15	7.4V
8	0V	16	8.5V
			12.4V

X87-1100-00		IC 1	
1	10.5V	9	2.9V
2	2.4V	10	—
3	0V	11	2.9V
4	2.4V	12	2.9V
5	2.9V	13	2.9V
6	2.9V	14	2.4V
7	2.9V	15	120μ 0.2V
8	0V	16	2.4V





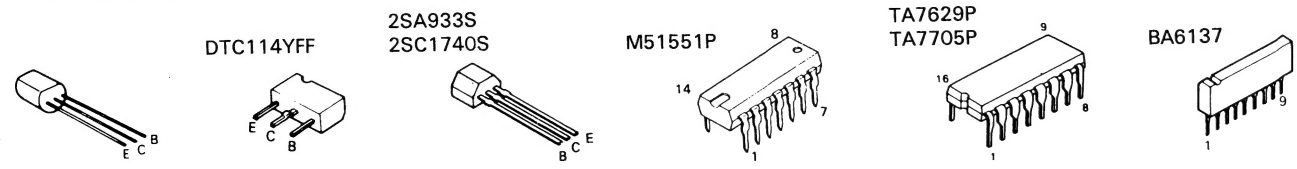


- (X26-1152-70) (A/2)
- IC3 : M51551P  
 Q1~6 : 2SC1845(F,E)  
 Q7,8,10,13~17,21,22 : 2SC1740S(Q,R), 2SC945(A)(Q,P) or 2SC161  
 Q9,19 : 2SC2320(E,F)  
 Q11 : DTC114YFF  
 Q12 : 2SA992(F,E)  
 Q18 : 2SD863(E,F)  
 Q20 : 2SA933S(Q,R), 2SA733(A)(Q,P) or 2SA1127  
 D15~19, 22~24, 26~39, 41, 43 : 1SS176 or 1SS133
- D20, 21, 42 : RD13ES(B2) or HZS13N(B2)  
 D25, 40 : RD3.9ES(B2) or HZS3.9N(B2)  
 D44 : DSM1A1

- (X26-1152-70) (B/2)
- IC1, 2 : BA6137  
 D1~13 : B30-0431-05  
 D14 : B30-0432-05

- (X26-1152-70) (B/2)

- 2SA1127NC  
 2SA733(A)  
 2SA992  
 2SC1685  
 2SC1845  
 2SC1980  
 2SC2320  
 2SC945(A)  
 2SD863



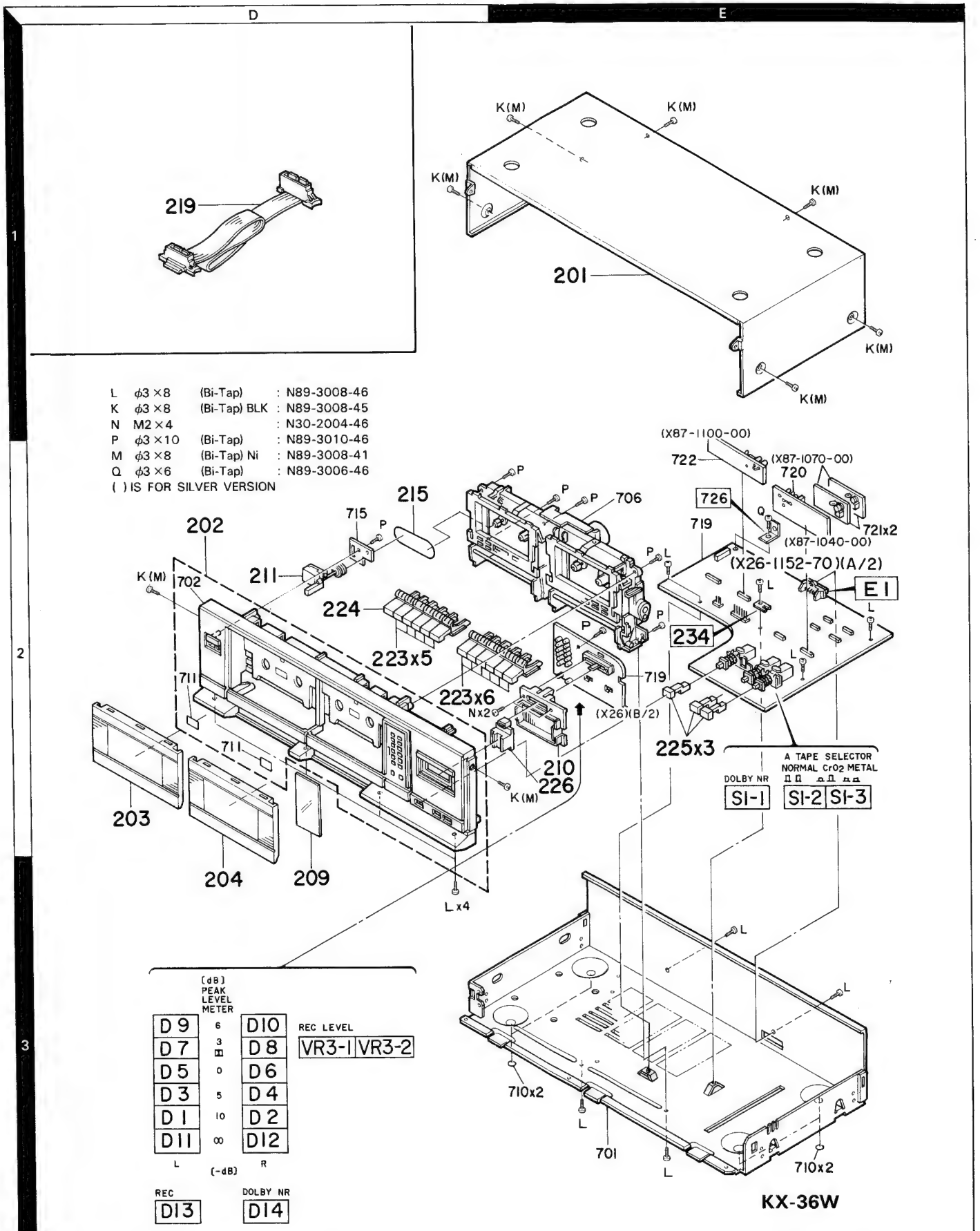
DC voltages are as measured with a high impedance voltmeter with a cassette loaded at playback mode. Values may vary slightly due to variations between individual instruments or/and units. Bias circuit DC voltages are as measured while in the record mode.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance, une cassette étant insérée en mode du lecture. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels. Les tensions c.c. du circuit de polarité doivent être mesurées, l'appareil étant en mode d'enregistrement.

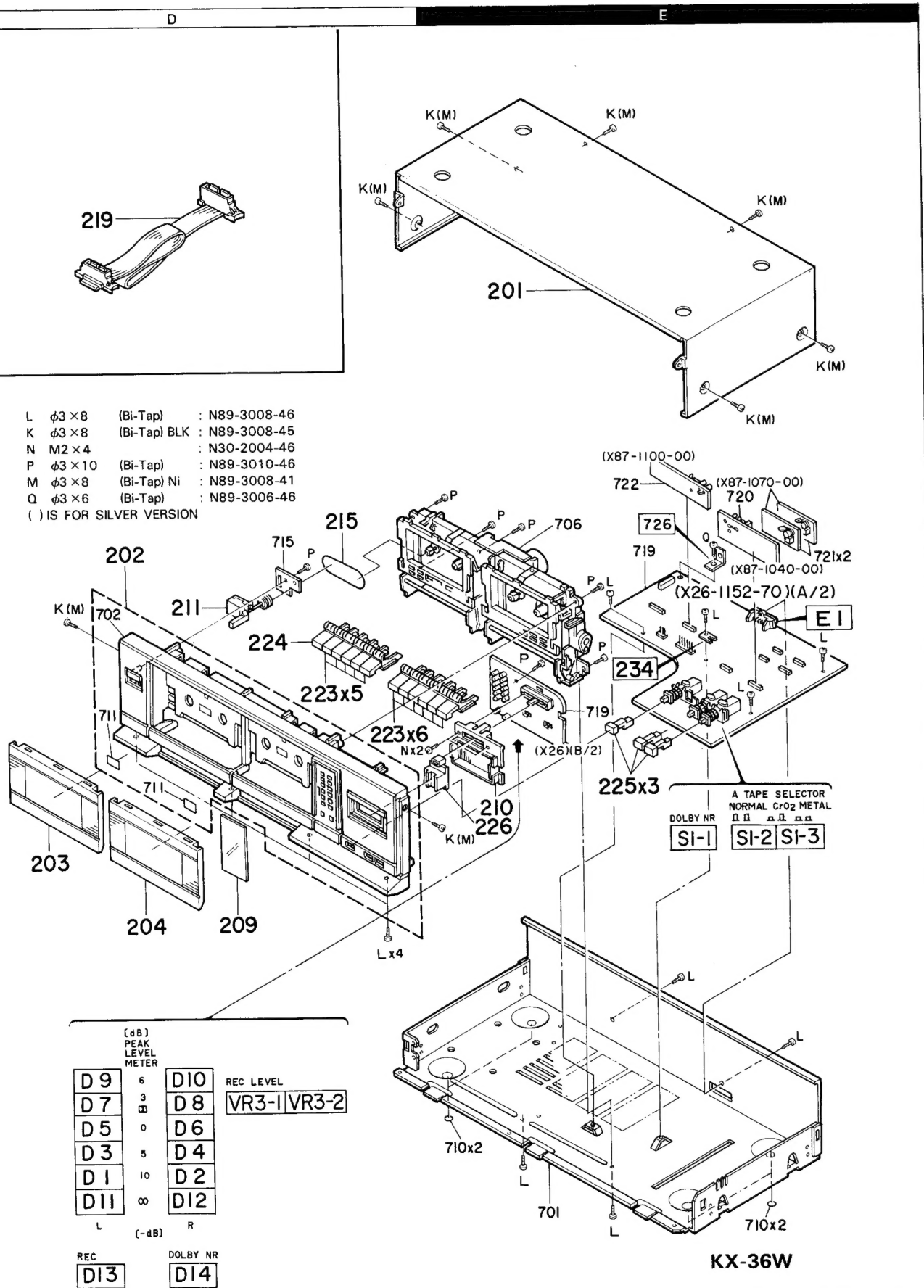




### EXPLODED VIEW (UNIT)



## EXPLODED VIEW (UNIT)



## PARTS LIST

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
KX-36W						
201	1E		A01-1398-01	METALLIC CABINET		S
201	1E	*	A01-1556-01	METALLIC CABINET		B
202	2D	*	A20-5201-03	PANEL ASSY		B
202	2D	*	A20-5202-03	PANEL ASSY		S
203	2D	*	A53-0919-03	CASSETTE LID (A)		
204	3D	*	A53-0920-03	CASSETTE LID (B)		
209	3D	*	B03-2276-04	DRESSING PLATE (PEAK LEVEL)		
210	2E		B07-1386-03	ESCUTCHEON (REC LEVEL)		B
210	2E		B07-1387-03	ESCUTCHEON (REC LEVEL)		S
211	2D		B35-0030-05	TAPE COUNTER		
			B46-0094-03	WARRANTY CARD	UUE	
			B46-0095-03	WARRANTY CARD	UUE	
			B46-0096-13	WARRANTY CARD	X	
			B46-0121-03	WARRANTY CARD	P	
			B46-0122-13	WARRANTY CARD	E	
			B46-0143-03	WARRANTY CARD	T	
		*	B50-6671-00	INSTRUCTION MANUAL (ENGLISH)		
		*	B50-6672-00	INSTRUCTION MANUAL (FRENCH)	PMXEM	
		*	B50-6673-00	INSTRUCTION MANUAL (SPANISH)	M	
		*	B50-6674-00	INSTRUCTION MANUAL (ARABIC)	M	
		*	B50-6676-00	INSTRUCTION MANUAL (G,D,I,SW)	E	
			B59-0092-00	SERVICE DIRECTORY	UUE	
215	2D		D16-0221-04	BELT		
219	1D		E30-1460-05	CORD WITH CONNECTOR		
			H11-0001-14	POLYSTYRENE FOAMED BOARD		
		*	H01-7489-04	ITEM CARTON CASE		B
		*	H01-7491-04	ITEM CARTON CASE		S
			H10-3318-02	POLYSTYRENE FOAMED FIXTURE		
			H10-3319-02	POLYSTYRENE FOAMED FIXTURE		
			H20-0417-04	PROTECTION COVER (460X370X360)	M	
			H25-0223-04	PROTECTION BAG (750X350X0.03)	PUUEXT	
			H25-0223-04	PROTECTION BAG (750X350X0.03)	TE	
			H25-0232-04	PROTECTION BAG (235X350X0.03)		
223	2D		K27-1635-04	KNØB (LEVER) PLAY		
224	2D		K27-1636-04	KNØB (LEVER) REC		
225	2E		K29-2368-04	KNØB ASSY (BUTTON) DOL. TAPE SEL		
226	2E		K29-2439-04	KNØB (SLIDE) REC LEVEL		B
226	2E		K29-2440-04	KNØB (SLIDE) REC LEVEL		S
CASSETTE UNIT (X26-1152-70)						
D1 -13	3D		B30-0431-05	LED(LN21CPH) LEVEL METER		
D14	3D		B30-0432-05	LED(LN31GCPH(U)) DOLBY NR		
C1			CE04KW1C330M	ELECTRØ 33UF 16WV		
C2			CE04KW1H010M	ELECTRØ 1.0UF 50WV		
C3 -10			CE04KW1V100M	ELECTRØ 10UF 35WV		
C11 ,12			CC45FSL1H151J	CERAMIC 150PF J		
C13 ,14			CC45FSL1H101J	CERAMIC 100PF J		
C15			C91-0776-05	POLYPRØ 1800PF J		
C16			CE04KW1C470M	ELECTRØ 47UF 16WV		
C17			CF92FV1H472J	MF 4700PF J		
C18			CF92FV1H123J	MF 0.012UF J		

E: Scandinavia &amp; Europe K: USA P: Canada

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UE: AAFES(Europe) X: Australia

(B: Black version) P, U, UE, M, X, T, E

(S: Silver version) M

A indicates safety critical components.

## PARTS LIST

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Ref. No. 参照番号	Address 位置	New Parts 新	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向	Re- marks 備考
Q13 -17 Q13 -17 Q18 Q19 Q20			2SC1740S(Q,R) 2SC945(A)(Q,P) 2SD863(E,F) 2SC2320(E,F) 2SA1127NC(R,S)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
Q20 Q20 Q21 ,22 Q21 ,22 Q21 ,22			2SA733(A)(Q,P) 2SA933S(Q,R) 2SC1685(R,S) 2SC1740S(Q,R) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
<b>RECORD AMPLIFIER UNIT (X87-1040-00)</b>						
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10			C91-0652-05 C91-0674-05 CE04FW1HR22MEL CE04FW1H010MEL C91-0688-05	CERAMIC 0.001UF K CERAMIC 0.0082UF K ELECTRO 0.22UF 50WV ELECTRO 1.0UF 50WV CERAMIC 0.033UF K		
C11 ,12 C13 ,14 C15 ,16 C17 ,18 C19 ,20		*	CE04FW1V4R7MEL CF92FV1H563J C91-0690-05 CF92FV1H683J C91-0688-05	ELECTRO 4.7UF 35WV MF 0.056UF J CERAMIC 0.039UF K MF 0.068UF J CERAMIC 0.033UF K		
C21 ,22 C23			CE04FW1V4R7MEL CE04KW1C101M	ELECTRO 4.7UF 35WV ELECTRO 100UF 16WV		
L1 ,2		*	L40-2725-29	SMALL FIXED INDUCTOR(2.7MH,J)		
VR1 ,2		*	R12-3101-05	TRIMMING PBT.(22K)REC LEVEL		
Q1 ,2 Q1 ,2 Q3 ,4 Q3 ,4 Q3 ,4			2SC1845(F,E) 2SC1980(S,T) 2SC1685(R,S) 2SC1740S(Q,R) 2SC945(A)(Q,P)	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR		
<b>DOLBY NOISE REDUCTION UNIT (X87-1070-00)</b>						
C1 C2 C3 C4 C5			CE04FW1C100M CE04FW1A101M CE04FW1HR47M CE04FW1C100M CE04FW1V4R7M	ELECTRO 10UF 16WV ELECTRO 100UF 10WV ELECTRO 0.47UF 50WV ELECTRO 10UF 16WV ELECTRO 4.7UF 35WV		
C6 C7 C8 C9 C10		*	C91-0670-05 CE04FW1V4R7M C91-0668-05 C91-0686-05 C91-0692-05	CERAMIC 0.0056UF K ELECTRO 4.7UF 35WV CERAMIC 0.0047UF K CERAMIC 0.027UF K CERAMIC 0.047UF K		
C11 C12 C13			CE04FW1C100M CE04FW1HR1M CE04FW1HR33M	ELECTRO 10UF 16WV ELECTRO 0.1UF 50WV ELECTRO 0.33UF 50WV		
L1			L79-0193-05	LC FILTER		
IC1			TA7629P	IC(DOLBY B NOISE REDUCTION)		
C1 -4 C5 ,6 C7 ,8 C9 C10			CK45FB1H102K CE04KW1V4R7M CE04KW1A470M CE04KW1C470M CE04KWQJ221M	CERAMIC 1000PF K ELECTRO 4.7UF 35WV ELECTRO 47UF 10WV ELECTRO 47UF 16WV ELECTRO 220UF 6.3WV		

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C11 -14 C15 ,16 C17 ,18			CK45FB1H391K CF92FV1H822J CE04KW1V4R7M	CERAMIC 390PF K MF 8200PF J ELECTRO 4.7UF 35WV		
VR1 -4			R12-3101-05	TRIMMING PBT.(22K)PB LEVEL		
IC1 Q1 -4 Q1 -4			TA7705P 2SC1740S(Q,R) 2SC945(A)(Q,P)	IC(PB EQ AMP/FWD REV SWITCH) TRANSISTOR TRANSISTOR		
<b>CASSETTE MECHANISM ASS'Y (D40-0368-05)</b>						
2 3	1A 1A		A53-0850-08 A53-0857-08	CASSETTE HOLDER(R) CASSETTE HOLDER(L)		
7 8 9 10 11	2B 1B 1B,1C 2B, 2B,2C		D01-0074-08 D03-0255-08 D03-0256-08 D10-1744-08 D10-1745-08	FLYWHEEL ASSY REEL DISK REEL DISK ASSY LEVER (PAUSE) LEVER (STOP)		
12 13 14 15 16	2B,2C 2B,2C 2B,2C 2B 2C		D10-1746-08 D10-1747-08 D10-1748-08 D10-1749-08 D10-1750-08	LEVER (PLAY) LEVER (FF) LEVER (REW) LEVER (REC) LEVER		
17 18 19 20 21	1C 1B 2B,2C 1B 2C		D10-1751-08 D10-1752-08 D10-1753-08 D10-1754-08 D10-1755-08	LEVER (EJECT)DECK B LEVER (EJECT)DECK A LEVER ASSY (LOCK CAM) ARM (PAUSE) ARM (REW)		
22 23 24 25 26	1B 1B 1B 1A,2B 2B		D10-1756-08 D10-1757-08 D10-1758-08 D10-1759-08 D12-0114-08	ARM (PAUSE) ARM (REC SENSOR) SLIDER (HEAD CHASSIS) ARM ASSY CAM (PAUSE)		
27 28 29 30 31	1B,1C 2A,2B 1B 2B 2B		D13-0364-08 D14-0157-08 D14-0158-08 D16-0141-08 D16-0142-08	GEAR (FF) PINCH ROLLER ASSY IDLER ASSY BELT (CLUTCH) BELT (FLYWHEEL)		
32 33 34 35	2B 2A 2B 1B,1C		D19-0080-08 D21-1152-08 D23-0210-08 D39-0175-08	CLUTCH ASSY EXTENSION SHAFT RETAINER DAMPER ASSY		
36 37	2A 2B	*	E31-3870-08 E31-3871-08	WIRING HARNESS (8P)R/P/E HEAD WIRING HARNESS (3P)P HEAD		
39 40	1C 2B		F07-0497-08 F20-0498-08	COVER INSULATING SHEET(SW)		
44 45 46 47 48	1A,1B 2B,2C 2B,2C 1B,1C 2B		G01-1689-08 G01-1876-08 G01-1877-08 G01-1878-08 G01-1879-08	COMPRESSION SPRING COMPRESSION SPRING (LEVER) COMPRESSION SPRING (LEVER) COMPRESSION SPRING TENSION SPRING		
49 50 51 52	2B,2C 2B 2B 1B		G01-1900-08 G01-1901-08 G01-1902-08 G01-1903-08	TENSION SPRING (PAUSE LEVER) TENSION SPRING (CAM) TENSION SPRING (CLUTCH ARM) TENSION SPRING (EJECT LEVER)		

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53	1B		G01-1904-08	TORSION SPRING		
54	1B,2B		G01-1905-08	TORSION SPRING		
55	1B		G01-1906-08	TORSION SPRING		
56	2B		G01-1907-08	TORSION COIL SPRING(DECK B)		
57	2A		G01-1908-08	TORSION COIL SPRING(DECK A)		
58	2B		G01-1909-08	TORSION COIL SPRING(PR)		
59	1A,2B		G02-0194-08	FLAT SPRING (CASSETTE CLAMP		
60	1C		G02-0419-08	FLAT SPRING		
61	2B		G11-1120-08	CUSHION (MOTOR)		
65	1A,2B		J19-2691-08	HOLDER (HEAD BASE)		
66	1C,2C		J19-2692-08	HOLDER (LEVER BASE A)		
67	1C,2C		J19-2693-08	HOLDER (LEVER BASE B)		
68	2A		J19-2694-08	BRACKET (RF)		
69	2A		J19-2695-08	BRACKET (LW)		
70	2A		J19-2696-08	BRACKET		
71	2C		J19-2697-08	BRACKET (SW)		
72	2C		J19-2698-08	BRACKET (REC SW)		
73	2A		J21-3887-08	MOUNTING HARDWARE(MOTOR)		
77	2A,2B		N19-0366-08	FLAT WASHER (Ø2.1X4.0)		
78	1B,1C		N19-0935-08	FLAT WASHER (Ø2.6)		
79	2B		N19-1029-08	FLAT WASHER		
80	1B		N19-1031-08	FLAT WASHER (Ø1.6X3.5)		
81	2B		N19-1034-08	FLAT WASHER (Ø2.1X4.0)		
82	1B,1C		N19-1035-08	FLAT WASHER (Ø1.2X3.0)		
83	2B		N19-1036-08	FLAT WASHER (Ø1.6X6.0)		
A	2A,2C		N09-1496-08	SCREW (Ø2X4)		
B	1B		N09-1507-08	STEPPED SCREW		
C	2B		N09-1511-08	STEPPED SCREW		
D	1C		N09-1675-08	SCREW (Ø2.6X5)		
E	1B,1C		N09-1676-08	SCREW (Ø2.6X13)		
F	1A,2B		N09-1681-08	SCREW (Ø2X9.5)		
G	1C		N09-1682-08	SCREW (Ø2X5)		
H	1B		N09-1683-08	STEPPED SCREW		
S1	1C		S46-1061-08	LEAF SWITCH (70USEC) DECK B		
S2	,3		S46-1086-08	LEAF SWITCH (PB)		
S4	2C		S46-1088-08	LEAF SWITCH (REC)		
S5	,6		S46-1085-08	LEAF SWITCH		
93	1A		T32-0304-08	ERASE HEAD		
94	1B		T32-0308-08	ERASE HEAD		
95	1A,2B		T34-0317-08	REC/PLAY HEAD		
96	2A		T42-0401-08	MOTOR ASSY		

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# SPECIFICATIONS

<b>Type</b> .....	Stereo double cassette deck with Dolby B NR system
<b>Track System</b> .....	4-track, 2-channel stereo/mono, recording/playback
<b>Recording System</b> .....	AC bias system (Bias frequency: 85 kHz)
<b>Erasing System</b> .....	AC System
<b>Tape Speed</b> .....	4.76 cm/sec (1-7/8 ips)
<b>Heads</b> .....	Record and Playback Head × 1 (Hard Permalloy) Playback Head × 1 (Hard Permalloy) Erase Head × 1 (Double gap ferrite)
<b>Motor</b> .....	Electronically controlled DC motor
<b>Fast Winding Time</b> .....	Approx. 135 seconds with C-60 tape
<b>Frequency Response:</b>	
<b>Normal Tape</b> .....	20 Hz to 15,000 Hz (30 Hz to 14,000 Hz, ±3 dB)
<b>CrO<sub>2</sub> Tape</b> .....	20 Hz to 15,000 Hz (30 Hz to 14,000 Hz, ±3 dB)
<b>Metal Tape</b> .....	20 Hz to 15,000 Hz (30 Hz to 14,000 Hz, ±3 dB)
<b>Signal-to-Noise Ratio:</b>	
<b>Dolby NR ON</b> .....	64 dB
<b>Dolby NR OFF</b> .....	56 dB
<b>Harmonic Distortion</b> .....	Less than 1.0% (at 1 kHz, 0 VU with Normal Tape)
<b>Wow and Flutter</b> .....	0.12% (W.R.M.S) ±0.3% (DIN)
<b>Dimensions</b> .....	W: 420 mm (16-9/16") H: 120 mm (4-3/4") D: 210 mm (8-1/4")
<b>Weight</b> .....	2.5 kg (5.5 lb)
<b>Reference Tapes</b> .....	Normal: KENWOOD ND-54 CrO <sub>2</sub> : KENWOOD CD-54 Metal: KENWOOD MD-46

Kenwood follows a policy of continuous advancements in development.  
For this reason specifications may be changed without notice.  
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Noise reduction circuit made under license from Dolby Laboratories Licensing Corporation.

Kenwood poursuit une politique de progrès constants en ce qui concerne le développement.  
Pour cette raison, les spécifications sont sujettes à modifications sans préavis.  
La marque DOLBY et le double "D" sont des marques déposées des Dolby Laboratories.  
Le système de réduction du bruit de fond est fabriqué sous licence des Dolby Laboratories.

Kenwood strebt ständige Verbesserungen in der Entwicklung an.  
Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.  
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